USER'S GUIDE 2412

CASIO

Getting Acquainted

Congratulations upon your selection of the CASIO Wrist Camera (this watch). To get the most out of your purchase, be sure to read this manual carefully, and keep the manual and everything contained in the package on hand.

About This Manual

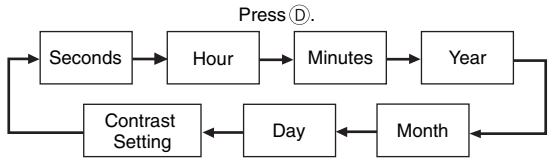
- Button operations are indicated using the letters shown in the illustration.
- The sizes and positions of the characters shown on the sample displays in this manual may differ slightly from those that actually appear on the display of your watch.
- When performing operations with this watch, you must first enter the correct mode (Camera Mode, Timekeeping Mode, etc.) See "General Guide" for information about maneuvering between modes.

- Each section of this manual provides you with the information you need to perform operations in each mode. Further details and technical information can be found in the "Reference" section.
- To ensure that this watch provides you with the years of service for which it is designed, be sure to read and follow the instructions under "User Maintenance".

Before Using the Watch...

To set the time and date

1. In the Timekeeping Mode, hold down Ⓐ for about one second until the seconds start to flash on the display, which indicates the setting screen.
   - Use D to cycle around the setting screen in the sequence shown below.



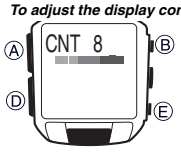
2. While a setting is flashing, use Ⓔ (+) and Ⓑ (–) to change it.
   - Pressing Ⓔ while the seconds are flashing resets them to **00**. See "To reset the seconds to zero" for more information.
   - Holding down either button scrolls at high speed.
3. When everything is the way you want it, press Ⓐ to exit the setting screen.
   - The day of the week is set automatically in accordance with the date setting.
   - The watch's built-in full automatic calendar makes allowances for different month lengths and leap years.
   - The year can be set in the range of 2000 to 2039. Going past December 31, 2039 reverts to January 1, 2000.
   - See "To adjust the display contrast" for more information about the contrast setting.

To toggle between 12-hour and 24-hour timekeeping

In the Timekeeping Mode, press Ⓔ to toggle between12-hour timekeeping (indicated by **A** or **P** on the display), or 24-hour timekeeping.

- With the 12-hour format, the **P** (PM) indicator appears to the left of the hour digits for times in the range of noon to 11:59 p.m. and the **A** (AM) indicator appears to the left of the hour digits for times in the range of midnight to 11:59 a.m.
- With the 24-hour format, times are displayed in the range of 0:00 to 23:59, without any indicator.
- The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is applied in all modes.

To adjust the display contrast



1. In the Timekeeping Mode, hold down Ⓐ for about one second until the seconds start to flash, which indicates the setting screen.
2. Use Ⓓ to cycle through the available settings until the contrast adjustment screen is on the display.
   - The contrast setting shows a value that indicates the current contrast level. A setting of Level 4, for example, is indicated as CNT4.
3. Use Ⓑ (Darker) and Ⓔ (Lighter) to adjust the contrast to any one of the nine available levels.
   - You can set display contrast in the range of CNT1 through CNT9. The initial default setting is CNT5.
4. Press Ⓐ to exit the setting screen.

Note

The contrast setting described above does not affect the display of images. Image contrast can be adjusted using a separate procedure, which is described in "To adjust image brightness".

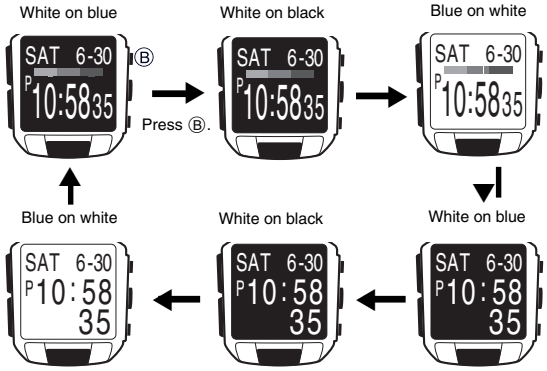
Specifying the Display Color Pattern

You can select from among three color combinations patterns and two layouts for a total of six different Timekeeping Mode color patterns.

To change the display color pattern

In the Timekeeping Mode, press Ⓑ.

- Each press of Ⓑ cycles through available display color patterns in the sequence shown below.



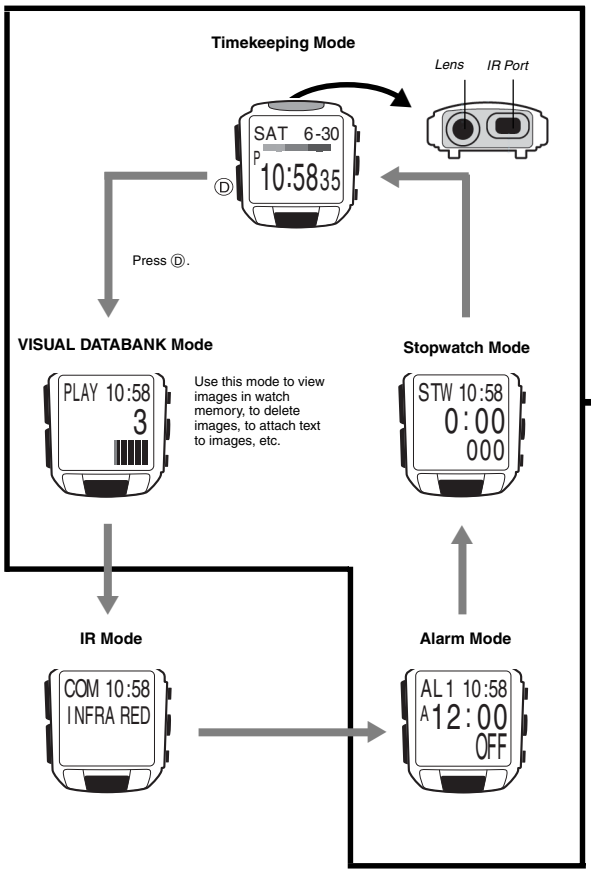
- Note that the display color pattern you make here is applied in other modes, too.

Auto Power Save

The watch automatically turns off its display screen if it is not moved and/or if you do not perform any operation on it for about 60 minutes. This not only conserves battery power, it also protects against "burn in" of display images.
To turn the display back on, press Ⓕ.
This displays the Timekeeping Mode screen .

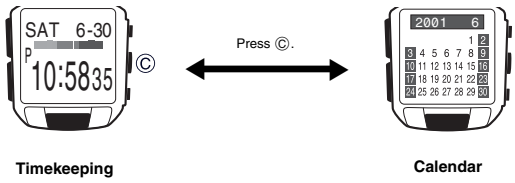
General Guide

Press Ⓓ to change from mode to mode.



Timekeeping Mode

• Pressing Ⓒ while in the Timekeeping Mode displays the Calendar screen.



• Press Ⓒ again to return from the Calendar screen to the Timekeeping Mode.

Press Ⓕ.

Camera Mode

• Pressing Ⓕ in any mode besides the IR Mode enters the Camera Mode.

• Pressing Ⓓ while in the Camera Mode enters the VISUAL DATABANK Mode so you can view images you have just recorded.

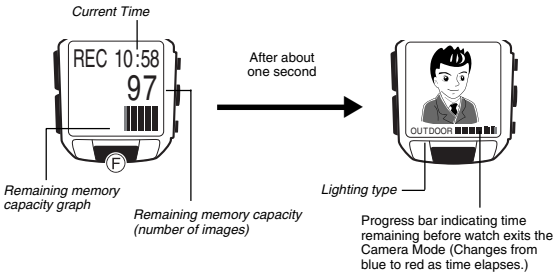
Camera Mode

Use the Camera Mode to record images.
• The lens for image recording is located on the top edge of the watch.

Note
• Wrist Camera memory can store up to approximately 100 images. The actual number of images you can store depends on recording conditions. If you record many brightly lit or colorful images, for example, the total number of images you can store may be less than 100, and remaining memory capacity may be less than that indicated on the display.
• The above is also true for the remaining memory capacity value that appears on the display. This value is an approximate number for reference purposes only. Depending on recording conditions, you may be able to store fewer images than that indicated on the display.

To record an image

1. Press Ⓕ to enter the Camera Mode .
   • Note that you cannot enter the Camera Mode from the IR Mode.
   • The Camera Mode screen first shows remaining memory capacity for about one second, followed by the image being picked up by the lens.


Current Time
REC 10:58
97
After about one second
OUTDOOR
Remaining memory capacity graph
Remaining memory capacity (number of images)
Lighting type
Progress bar indicating time remaining before watch exits the Camera Mode (Changes from blue to red as time elapses.)

2. While viewing the image on the display, point the lens of the watch at the subject whose image you want to record.
   • Pressing Ⓒ at this time toggles between normal size and 2× digital zoom.
3. Press Ⓕ to release the shutter and record the image.
   • This records the image currently on the display and saves it into memory. The image and recording date and time remain on the display for about three or four seconds as the image is being saved.

Note
• All watch button operations are disabled while the record operation is in progress.
• **The watch stays in the Camera Mode for about one minute after you enter it. Then it automatically enters the VISUAL DATABANK Mode. See "Camera Rest Interval" for more information.**
• The message **MEMORY FULL** appears on the display to indicate that memory is full. You will not be able to record an image while this message is displayed. If this happens, delete images you no longer need to make room for more images .

Camera Mode Precautions

General
• Never touch the surface of the lens. Fingerprints or dirt on the lens can cause poor performance of the camera function. To clean the lens surface, use a camera lens blower to blow off any dirt or dust particles, and then wipe with a soft, dry cloth.
• Take care that you do not accidentally move the watch when you press Ⓕ to release the shutter.
• Insufficient lighting can result in poor images. Shoot in daylight whenever possible. At night, shoot indoors in a well-lit area.
• Whenever you enter the Camera Mode, the watch normally performs a short routine to adjust the CMOS sensor to match current lighting conditions. Because of this, an image recorded right after you enter the Camera Mode may contain unwanted specks. Always check the image on the watch display and make sure its brightness is stable before recording it.

Camera Rest Interval
Camera Mode operations consume considerable battery power. To protect against premature rundown of the battery power, the watch automatically goes into a rest interval, during which you will be unable to re-enter the Camera Mode after you exit it. The length of the rest interval is equal to the amount of time you spent in the Camera Mode before you exited it. This means that if you exit the Camera Mode after being in it for 20 seconds, you will be unable to re-enter the Camera Mode for about 20 seconds.

Remaining rest interval time

If you try to enter the Camera Mode during a rest interval, the message **WAIT** appears on the display, along with a countdown of the remaining rest interval time.
- The maximum rest interval is 60 seconds. The maximum rest interval may be as long as 70 seconds following recording of an image using the camera timer .

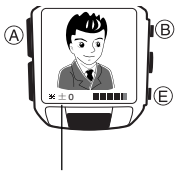
Displayed Image Size and Memory Image Size
Though the size of images displayed by this watch is 78 × 72 dots (78 × 80 dots in the case of an image that includes the recording date and time), the size of the image stored in memory is 176 × 144 dots. This means that after you transfer images to your computer or another device, you can display them with 176 × 144 dots.

Alarm, and Hourly Time Signal Sounds
The watch does not emit any alarm, or Hourly Time Signal sound while it is in the Camera Mode.

Controlling the Camera Mode Image
You can use the following procedures to adjust the brightness, to specify the type of lighting present when recording an image, and to configure the camera timer.

Adjusting Image Brightness
The watch automatically sets the brightness of the image when you record it. You can also change the brightness level manually when you want to compensate for backlighting of the subject, very dark backgrounds, etc.

To adjust image brightness



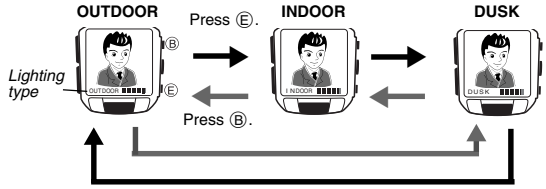
Brightness value

1. Before recording an image in the Camera Mode, press Ⓐ twice to enter the brightness setting screen.
2. Use Ⓔ (brighter) and Ⓑ (darker) to adjust the brightness of the image. A larger brightness value indicates a brighter setting, while a smaller value indicates a darker setting.
   - You can set brightness to one of 15 levels in the range of –7 to +7. The initial default level is ±0.
   - It may take some time after you press Ⓑ or Ⓔ before the change in brightness is reflected on the displayed image.
   - A brightness setting you make remains in effect until you change it or exit the Camera Mode. Automatic brightness adjustment is the initial default whenever you enter the Camera Mode or change the lighting type setting.

Important!
Even with manual brightness adjustment, you may not be able to obtain an acceptable image when recording images under very bright or very dark lighting conditions.

Specifying the Lighting Type
The type of lighting present when recording, greatly affects the resulting image. You can use the procedure below to set up the watch for shooting indoors or outdoors, which helps to ensure proper brightness for recorded images.

To specify the lighting type
Before recording the image in the Camera Mode, press Ⓔ or Ⓑ.
Use Ⓔ or Ⓑ to cycle through available lighting type settings in the sequence shown below.

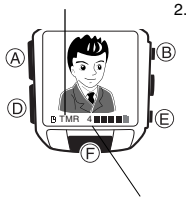


- You can select **OUTDOOR** for outdoor lighting, **INDOOR** for indoor lighting, or **DUSK** for shooting at twilight or under other conditions where lighting is dim.
- The lighting type setting you make remains in effect until you change it or exit the Camera Mode. **OUTDOOR** is the initial default whenever you enter the Camera Mode.
- The screen refresh rate is relatively slow when **DUSK** is selected, which can make changes in the image on the display appear slow.

Using the Camera Timer to Record Images
You can select two seconds, five seconds, or 10 seconds as the camera timer start time.

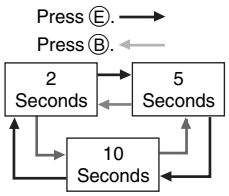
To record an image using the camera timer

Camera timer indicator



Camera timer time

1. In the Camera Mode, press Ⓐ to display the camera timer screen.
2. Use Ⓔ and Ⓑ to change the camera timer setting in the sequence shown below.
   - The default setting is 2 seconds.



3. Press Ⓕ to start the camera timer and perform a record operation when the end of the countdown is reached.
   - The number of seconds remaining is counted down on the display.
   - Pressing Ⓕ while a countdown is in progress records the image and cancels the remainder of the countdown.
   - To stop a camera timer countdown and reset the timer start time to its initial value, press Ⓐ, Ⓑ, or Ⓔ.
   - Pressing Ⓓ while a camera timer countdown operation is in progress changes to the VISUAL DATABANK Mode.
   - The watch automatically exits the Camera Mode after about one minute. If one minute elapses while camera timer operation is in progress, the timer operation continues until it is complete. The watch automatically returns to the VISUAL DATABANK Mode after recording the image.

VISUAL DATABANK™

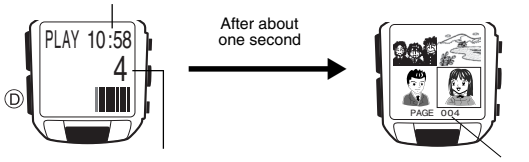
Besides viewing images, you can use the VISUAL DATABANK Mode to delete images, to attach text to images, etc.

Important!
The alarm and Hourly Time Signal do not sound while the VISUAL DATABANK Mode setting screen is on the display.

To view recorded images
1. In the Timekeeping Mode or the Camera Mode, press Ⓓ to enter the VISUAL DATABANK Mode .
   - A screen showing the number of images in memory appears for about one second, followed by a four-image thumbnail screen. The last image you were viewing or the last image you recorded has a boundary around it on the thumbnail screen.

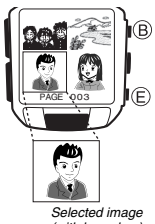
Current Time

Thumbnail screen



Number of images in memory

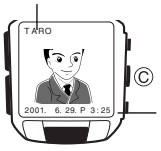
Image number



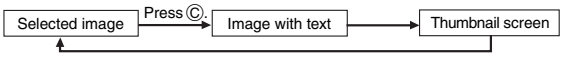
Selected image (with boundary)

2. Use Ⓑ and Ⓔ to move the boundary between images until the one you want is selected.
   - Holding down either button moves the boundary at high speed.
3. Press Ⓒ to display the enlarged version of the selected image with recording date and time.
   - It can take from one to four seconds for the enlarged version of the selected image to appear clearly on the display.
   - While the enlarged version of an image is on the display, you can use Ⓑ and Ⓔ to scroll to another image, if you want.
4. While the enlarged version of the selected image is on the display, press Ⓒ to display any text assigned to the image (if there is any).
   - Each press of C cycles through display settings in the sequence shown below.

Text



Recording time and date

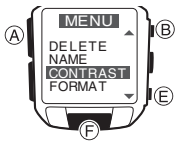


Adjusting Image Contrast

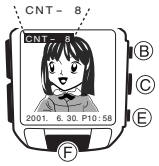
Use the VISUAL DATABANK Mode to adjust image contrast.

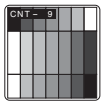
- You can select an image contrast setting in the range of 1 (Darkest) to 15 (Lightest).
- The image contrast setting procedure is different from the display contrast procedure described .

To adjust image contrast



1. In the VISUAL DATABANK Mode, hold down Ⓐ for about one second.
   - This displays the **MENU** screen.
2. Use Ⓔ and Ⓑ to move the highlighting to **CONTRAST**, and then press Ⓕ.
   - This displays the image along with a contrast setting value.
   - You can use the image screen to adjust contrast, or you can use a special color chart screen, which shows a number of different colored bars. Press C to toggle the display between the image screen and the color chart screen.
   - The image that appears for the contrast setting is the one you were last viewing in the VISUAL DATABANK Mode.
   - Only the color chart screen appears when you perform the above step while image memory is empty.
3. Use Ⓔ (Lighter) and Ⓑ (Darker) to adjust the contrast of the image.
4. After you are finished, press Ⓕ to return to the **MENU** screen.
5. Pressing Ⓐ exits the **MENU** screen and returns to the screen that was on the display in step 1.



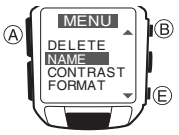


Attaching Text to an Image

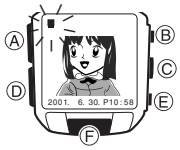
You can use the following procedure to attach up to 24 characters of text to each image.

To attach text to an image

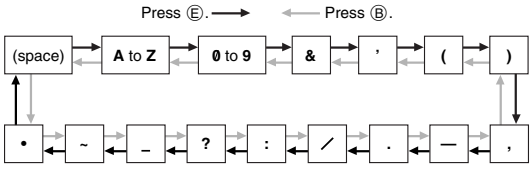
1. In the VISUAL DATABANK Mode, use Ⓑ and Ⓔ to move the boundary to the image to which you want to attach the text.
2. Press Ⓒ to display the enlarged version of the selected image.



3. Hold down Ⓐ for about one second until the **MENU** screen appears.
4. Use Ⓔ and Ⓑ to move the highlighting to **NAME**.



5. Press Ⓕ to display the text input screen.
6. Input the text you want.
   - Use Ⓑ and Ⓔ to cycle through available characters in the sequence shown below at the current cursor location.• Holding down either button scrolls at high speed.
   - Press Ⓒ to cycle input between alpha characters (**A**), numbers (**0**),and symbols (**&**).
   - Use Ⓓ to move the cursor.



7. After you finish inputting the text you want, press Ⓐ to return to the screen in step 2 of this procedure.
   - The message **WAIT NOW SORTING** remains on the display as the watch saves the text, and then the image appears.
   - Pressing Ⓒ displays the the enlarged version of the selected image with text.

Image Sorting

Images in watch memory are automatically sorted according to the first letter of their attached text (alpha characters → numbers → symbols). Images that do not have any attached text come last, sorted according to their recording dates (oldest first).

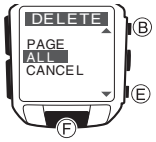
- If multiple images have the same text, those images are sorted according to their recording dates (oldest first).
- Images transferred to the watch using the IR Mode may not be sorted correctly.

Deleting Images

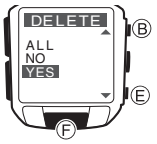
You can use the following procedures to delete a specific image or all images currently stored in watch memory.

To delete all images in watch memory

1. In the VISUAL DATABANK Mode, hold down Ⓐ for about one second until the **MENU** screen appears.
2. Press Ⓔ or Ⓑ to select **DELETE**.



3. Press Ⓕ to display the **DELETE** menu.
4. Press Ⓑ or Ⓔ to select **ALL**.
   - Selecting **CANCEL** and pressing Ⓕ returns to the previous screen.
5. Press Ⓕ and a confirmation message appears on the display.



6. If you really want to delete the image, press Ⓑ or Ⓔ to select **YES** and then press Ⓕ. To clear the confirmation message without deleting anything, select **NO** and press Ⓕ.
   - The message **WAIT DELETE ALL** remains on the display as the delete operation is in progress. The **MENU** screen appears after the delete operation is complete.

- You can return to the normal VISUAL DATABANK Mode screen during the above procedure by pressing Ⓐ at any point before actually deleting the image in step 7.

To delete a specific image

1. In the VISUAL DATABANK Mode, use Ⓑ and Ⓔ to move the boundary to the image you want to delete.
2. Press Ⓒ to display the enlarged version of the selected image.
3. Hold down Ⓐ for about one second until the **MENU** screen appears.
4. Press Ⓔ or Ⓑ to select **DELETE**.
5. Press Ⓕ to display the **DELETE** menu.
6. Press Ⓑ or Ⓔ to select **PAGE** and press Ⓕ.
   - The image that will be deleted appears on the display. At this time you could use Ⓔ and Ⓑ to select a different image, if you want.
7. Press Ⓕ again and a confirmation message appears on the display.
8. If you really want to delete the image, press Ⓑ or Ⓔ to select **YES** and then press Ⓕ. To clear the confirmation message without deleting anything, select **NO** and press Ⓕ.
   - The message **WAIT DELETE PAGE** remains on the display as the delete operation is in progress. The watch automatically clears the message and returns to the **DELETE** menu after the delete operation is complete.
   - You can exit the image delete screen during the above procedure by pressing Ⓐ at any point before actually deleting the image in step 8.
   - Depending on the size of the image you delete, the remaining memory capacity value may not change after deletion is complete.

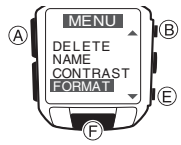
Formatting Image Memory

Perform the steps below to re-format Wrist Camera memory whenever you experience image memory problems due to memory error, etc.

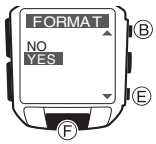
Important!

- Formatting image memory deletes all images there.
- If formatting does not solve the problem, format two or three times.

To format image memory



1. In the VISUAL DATABANK Mode, hold down Ⓐ for about one second until the **MENU** screen appears.
2. Use Ⓔ and Ⓑ to move the highlighting to **FORMAT**.



3. Press Ⓕ and a confirmation message appears on the display.
4. If you really want to format image memory, press Ⓑ or Ⓔ to select **YES** and then press Ⓕ. To clear the confirmation message without formatting image memory, select **NO** and press Ⓕ.
   - The message **WAIT FORMAT** stays on the display while formatting is in progress. After formatting is complete, the **MENU** screen appears.
   - If you want to cancel the format procedure at any time before step 4, press Ⓐ. Note that formatting cannot be canceled once the **WAIT FORMAT** message is on the display.

IR Mode

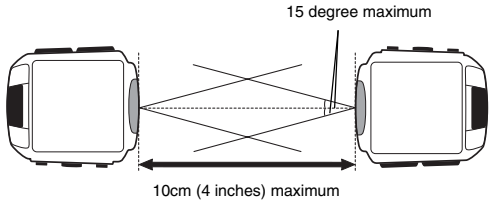
Use the IR Mode to exchange data between two watches or between your watch and computer, or some other device.
• The following shows compatibility of data communication between this watch and other CASIO Wrist Camera Models.

Wrist Camera Model	Communication with this watch
WQV-3 series (Module 2411)	Supported
WQV-1/WQV-2 series (Module 2220)	Not supported (different protocol)

Note
An infrared adapter or an IR port is required to exchange data with this watch.

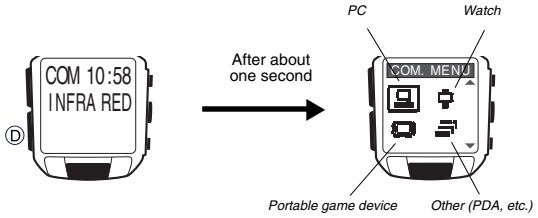
The following procedure covers data communication between two watches only. See the CD-ROM that comes with the watch and the documentation that comes with the infrared adapter for information about data communication with a computer.

Exchanging Data Between Two Watches

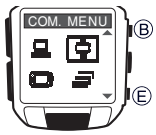


• To exchange data between two watches, orient the watches as shown above.
• The 10cm (4 inches) and 30-degree maximums shown in the above illustration apply only when the watches are pointed straight at each other. The maximum allowable distance may be less if either watch is at an angle (not pointed straight).
• At an angle of 15 degrees or more, you may need to move the two watches very close to each other.

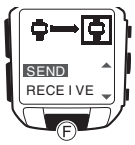
To enter the IR Mode
In the Timekeeping Mode, press Ⓓ twice to enter the IR Mode.
• An initial screen appears for about one second, followed by the **COM. MENU** screen.



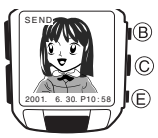
To send an image



1. On the **COM. MENU** screen, use Ⓑ or Ⓔ to select watch ( ).

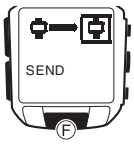


2. Press Ⓕ to display the watch-to-watch send menu.



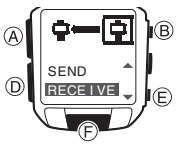
3. Press Ⓒ to display the image selection screen.
   • Each press of Ⓒ toggles between the image and the send menu.
   • The watch automatically returns to the send menu if you leave an image on the display for about five seconds.

4. Use Ⓔ(+) and Ⓑ (–) to scroll through the images and display the one you want to send.
   • **SEND** is displayed in the upper left corner of the image screen.
   • You can send only one image at a time between watches.
5. Align the IR ports of the two watches with each other.
   • Put the receiving watch into receive standby at this time. See "To receive an image" for more information.



6. On the sending watch, press Ⓕ to send the displayed image.
   • The data send screen shown nearby appears while an image send operation is in progress.
   • The message **OK** appears momentarily after the image send operation is complete. Next, the watch returns to the send menu.
   • Pressing Ⓐ during the above procedure displays the **COM. MENU** screen.
   • After you are finished sending images, press Ⓓ to return to the Timekeeping Mode.

To receive an image



1. On the **COM. MENU** screen, use Ⓑ or Ⓔ to select watch ( ).
2. Press Ⓕ to display the watch-to-watch send menu.
3. Press Ⓔ to display the watch-to-watch receive menu.
   • Pressing Ⓑ returns to the watch-to-watch send menu.
4. Press Ⓕ to enter receive standby.
5. Align the IR ports of the two watches with each other, and perform the send operation on the sending watch.
   • See "To send an image" for more information.
   • The message **OK** appears momentarily, followed by the received image. Next, the watch returns to the receive menu.
   • Pressing Ⓐ during the above procedure displays the **COM. MENU** screen.
   • After you are finished receiving images, press Ⓓ to return to the Timekeeping Mode.

Communication Errors

Screen messages appear in the IR Mode to let you know when there is a problem with data communication. When this happens, check the following to find out what you need to do. Also, you can avoid data communication problems by carefully observing the advice under "Communication Precautions".

Communication Screen Messages

ERROR SEND (Sender), **ERROR RECEIVE** (Receiver)	Data send or receive failed for some reason. Try again.
MEMORY FULL	Memory of the receiver is full. Delete data you no longer need and try again.
(Sender) (Receiver)	Something is interfering with proper data communication. Correct the cause of the problem. If data communication is not restored within about 25 seconds, **ERROR** appears on the display.

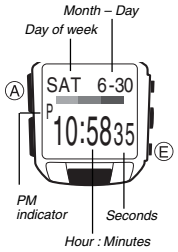
Other Messages

CHECKING DATA	This message appears when an image is being processed after data is received.
REC ERROR	Data cannot be saved because some problem occurred while accessing flash memory.

Communication Precautions

• The two IR ports must be within 10cm (4 inches) and 30 degrees of each other.
• Proper data communication may also be impossible if the two IR ports are too close to each other.
• At an angle of 15 degrees or more, you may need to move the two IR ports very close to each other.
• Do not move the watch while communication is in progress.
• Make sure there is nothing between the two IR ports that blocks the path of the IR signal.
• Infrared communication may not be possible in areas where lighting is bright, near a window, etc.
• In the case of inverter fluorescent lighting or other very strong light, try turning off the light or move to an area where light is not shining directly onto the infrared ports.
• An unrelated nearby IR data communication operation can interfere with proper IR data communication.
• The maximum allowable distance between the IR ports may be less than 10cm when watch battery power is low.
• The watch automatically returns to the **COM. MENU** screen about five minutes after the image selection screen or receive standby screen is displayed. If the point where five minutes elapse occurs while a data send/receive operation is in progress, the operation continues until it is complete, after which the watch automatically returns to the **COM. MENU** screen.

Timekeeping



The Timekeeping Mode is the default mode of the watch when you are not recording images, using the stopwatch, etc.
- See information about setting the time and date, and for selecting either 12-hour or 24-hour timekeeping.

Note
You can also make watch time and date settings on your computer using the link software that comes bundled with the watch. See the WQV Link 3.0 user's manual on the CD-ROM that comes with the watch for more information.

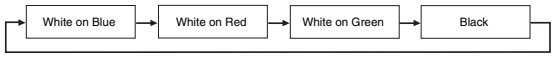
To reset the seconds to zero
1. In the Timekeeping Mode, hold down Ⓐ for about one second until the seconds start to flash, which indicates the setting screen.
2. Press Ⓔ to reset the seconds to **00**.
   - Pressing Ⓔ while the seconds are in the range of 30 to 59 resets them to **00** and adds 1 to the minutes. In the range of 00 to 29, the minutes are unchanged.
3. Press Ⓐ to exit the setting screen.

Using the Calendar Screen

The Calendar screen shows holidays and other information for a full month at a glance.
- Pressing Ⓒ while in the Timekeeping Mode displays the Calendar screen.
- Press Ⓒ again to return from the Calendar screen to the Timekeeping Mode.
- You can change date colors using the procedure under "To set date colors" .

To view the calendar of a specific month
1. In the Timekeeping Mode, press Ⓒ to display the Calendar screen.
   - The current month appears first, with today's date flashing (according to Timekeeping Mode time and date).
2. Use Ⓔ (+) and Ⓑ (–) to scroll through months until the one you want is displayed.
   - Holding down either button scrolls at high speed.
   - The full-auto calendar automatically makes adjustments for month lengths, including leap years, from January 2000 to December 2039.
   - The initial default data color settings are white on blue for Saturday, and white on red for Sunday.
   - The Timekeeping Mode display changes to the specified date color on the applicable day of the week.

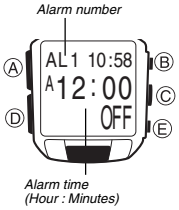
To set date colors
1. Display the Calendar screen and scroll to the month that contains the date whose color you want to change.
2. Hold down Ⓐ for about one second, until the first day of the displayed month starts to flash, which indicates the setting screen.
   - The first day of the month flashes because it is *selected*.
   - If you hold down Ⓐ while the calendar for the current month is on the screen and today's date is flashing, the setting screen is indicated when the flashing of today's date becomes faster.
3. Use Ⓔ (+) and Ⓑ (–) to move the flashing around the calendar to the date whose color you want to change.
   - Holding down either button moves the flashing at high speed.
4. When the date you want is flashing, press Ⓒ to cycle through the available date color settings in the sequence shown below.



5. After all date color for the month is the way you want, press Ⓐ to save your settings and exit the setting screen.

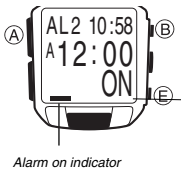
Note
You can also make watch date color settings on your computer using the link software that comes bundled with the watch. See the WQV Link 3.0 user's manual on the CD-ROM that comes with the watch for more information.

Alarm

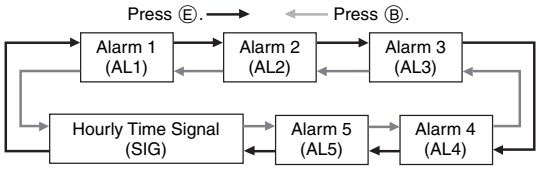


You can set up to five independent Daily Alarms. When the Hourly Time Signal is turned on, the watch beeps every hour on the hour.
- Alarm settings and Hourly Time Signal settings are available in the Alarm Mode, which you can enter by pressing Ⓓ .

To set an alarm time



1. In the Alarm Mode, use Ⓑ and Ⓔ to select the alarm (1 to 5) whose time you want to set.



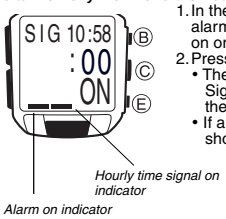
2. After you select an alarm, hold down Ⓐ until the hour digits of the alarm time start to flash, which indicates the setting screen.
   - This automatically turns on the alarm and displays the alarm on indicator.
3. Use Ⓔ (+) and Ⓑ (–) to change the flashing setting.
   - Holding down either button changes the setting at high speed.
   - Each press of Ⓓ switches between the hour and minute digits.
   - When setting the alarm time using the 12-hour format, take care to set the time correctly as am (**A** indicator) or pm (**P** indicator).
4. Press Ⓐ to exit the setting screen.

Alarm Operation
When an alarm is turned on, the alarm tone sounds for 20 seconds at the preset time each day.
Press any button to stop the alarm after it starts to sound.

Note
The Daily Alarm and Hourly Time Signal do not sound while the watch is in the Camera Mode or IR Mode, or while the Calendar or VISUAL DATABANK Mode setting screen is on the display.

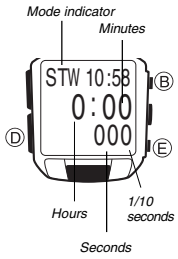
To test the alarm
In the Alarm Mode, hold down Ⓒ to sound the alarm.

To turn a Daily Alarm and the Hourly Time Signal on and off



1. In the Alarm Mode, use Ⓑ and Ⓔ to select an alarm or the Hourly Time Signal you want to turn on or off.
2. Press Ⓒ to turn it on and off.
   - The alarm on indicator and the Hourly Time Signal on indicator are shown on the display in the Timekeeping, Alarm, and Stopwatch Modes.
   - If any alarm is on, the alarm on indicator is shown on the display.

Stopwatch



The stopwatch lets you measure elapsed time, split times, and two finishes.
- The display range of the stopwatch is 23 hours, 59 minutes, 59.9 seconds.
- The stopwatch continues to run, restarting from zero after it reaches its limit, until you stop it.
- The stopwatch measurement operation continues even if you exit the Stopwatch Mode.
- All of the operations in this section are performed in the Stopwatch Mode, which you enter by pressing Ⓓ.

To measure times with the stopwatch

Elapsed Time

Ⓔ	Ⓔ	Ⓔ	Ⓔ	Ⓑ
Start	**Stop**	**Re-start**	**Stop**	**Clear**

Split Time

Ⓔ	Ⓑ	Ⓑ	Ⓔ	Ⓑ
Start	**Split**	**Split release**	**Stop**	**Clear**

Two Finishes

Ⓔ	Ⓑ	Ⓔ	Ⓑ	Ⓑ
Start	**Split** First runner finishes. Display time of first runner.	**Stop** Second runner finishes.	**Split release** Display time of second runner.	**Clear**

Power Supply

About the Pre-installed Battery
The battery installed at the factory discharges during shipment and inventory storage. Because of this, it may not provide the normal battery life specified for this watch.
• It is up to you to purchase a battery for replacement, even if the battery you are replacing does not last for the specified battery life period.

Low Battery Indication
As the battery goes low, the watch gradually disables functions to conserve remaining power, as described below.

Low battery indicator

Step 1
The low battery indicator flashes on the display when battery power drops below a certain level. At this time, the following functions become disabled.
• Entry to the Camera Mode
• VISUAL DATABANK Mode text input and image data deletion
• IR Mode data communication

Step 2
If you do not replace the battery within about 24 hours, the low battery indicator stops flashing and remains on the display and the following function also becomes disabled.
• Daily alarm and Hourly Time Signal sound

Note
• Attempting to access any of the disabled functions listed in Step 1 and Step 2 above causes the message **LOW BATTERY** to appear and let you know that the function is not available due to low battery power.
• The **LOW BATTERY** message remains on the display for about one second.

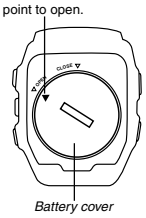
Note that CASIO shall not be held responsible for any damage or loss, including but not limited to lost profits, by you or any third party due to data deletion or modification due to malfunction, repairs, battery replacement, etc.

Battery Precautions
Incorrectly using a battery can cause it to burst or leak, possibly damaging the interior of the watch. Note the following precautions.
• This watch is powered by a single CR-2032 lithium battery.
• We strongly urge that you use only the type of battery specifically recommended in this manual.
• Damage to or dirt, dust, moisture on the inside of the battery cover and the battery compartment or on the surface that comes into contact with the rubber seal (gasket) can cause loss of water resistance. Keep such areas clean and free of moisture.
• Never leave a dead or weak battery in the battery compartment. Doing so runs the risk of damage and malfunction due to battery fluid leaks.
• Be sure to dispose of old batteries according to the local laws and regulations in your area.
• Improperly replacing the battery can result in damage to the watch. You will be charged to repair such damage if it occurs, so take care to replace the battery correctly.
• Never try to take the battery apart, or expose it to heat or direct flame. Take care that the positive and negative ends of the battery never become shorted.
• The battery installed at the factory is not rechargeable. Never try to charge it.
• Should battery fluid ever leak inside the battery compartment, immediately use a dry rag to wipe it out while taking care not to get any fluid on your hands.

Keep batteries out of the reach of small children. If accidentally swallowed, immediately contact a physician.

To replace the battery

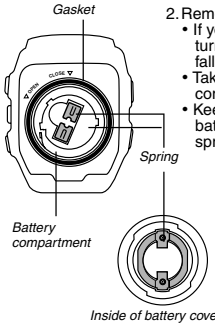
Rotate to this point to open.



Battery cover

1. Open the battery cover.
   • Insert a coin or other similar object into the slot in the battery cover and rotate the cover to the **OPEN** position.
   • Do not use undue force when rotating the battery cover. Doing so can damage the cover.

Gasket

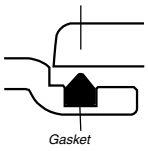


Spring
Battery compartment
Inside of battery cover

2. Remove the old battery.
   • If you have trouble removing the battery, try turning the back of the watch downwards so it falls out.
   • Take care that you do not lose the battery compartment gasket.
   • Keep your fingers away from the spring inside the battery compartment. The sharp edges of the spring create the risk of personal injury.

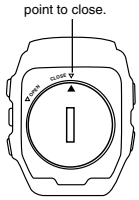
Gasket

Battery cover


Gasket

3. Load a new battery.
   • Wipe the surfaces of a new battery with a dry cloth, and load the battery into the watch with its plus (+) side facing up (so you can see it).
   • Never pick up the battery with tweezers contacting the top surface and bottom surface at the same time. Doing so creates a short.
   • If the gasket comes out when you remove the battery, be sure to replace it before loading the battery. You will not be able to load the battery properly if the gasket is not in place.
   • Whenever replacing the gasket, make sure there is not dust or dirt on it.
   • Note the triangular shape of the gasket material. The flat surface (the base of the triangle) is the bottom, which should be against the watch body when the gasket is installed. The pointed surface (the peak of the triangle) is the top, which contacts the battery cover.

Rotate to this point to close.



4. Close the battery cover.
   • Replace the battery cover, and rotate it to the **CLOSE** position using a coin or other similar object.
   • It takes about 10 seconds for something to appear on the display after you close the battery cover.

Settings Following Battery Replacement
The watch retains image data in memory when you replace the battery. However, the current time, date, calendar, and alarm settings are all cleared. Be sure you make these settings each time you replace the battery.

Reference

This section contains more detailed and technical information about watch operation. It also contains important precautions and notes about the various features and functions of this watch.

Auto Return Features
• After you perform an operation in any mode except for the Camera Mode, pressing Ⓓ returns to the Timekeeping Mode.
• The watch automatically switches to the Timekeeping Mode if you do not perform any operation for about one minute in any mode screen except for the Stopwatch Mode.
• Pressing Ⓐ while the VISUAL DATABANK Mode setting screen (including the **MENU** screen) is on the display exits the setting screen.
• In any setting screen except for the IR Mode, the watch automatically exits the setting screen if you do not perform any operation for about one minute.
• If you do not perform an operation for about five minutes after displaying the IR Mode send/receive menu, the watch automatically returns to the IR Mode screen.